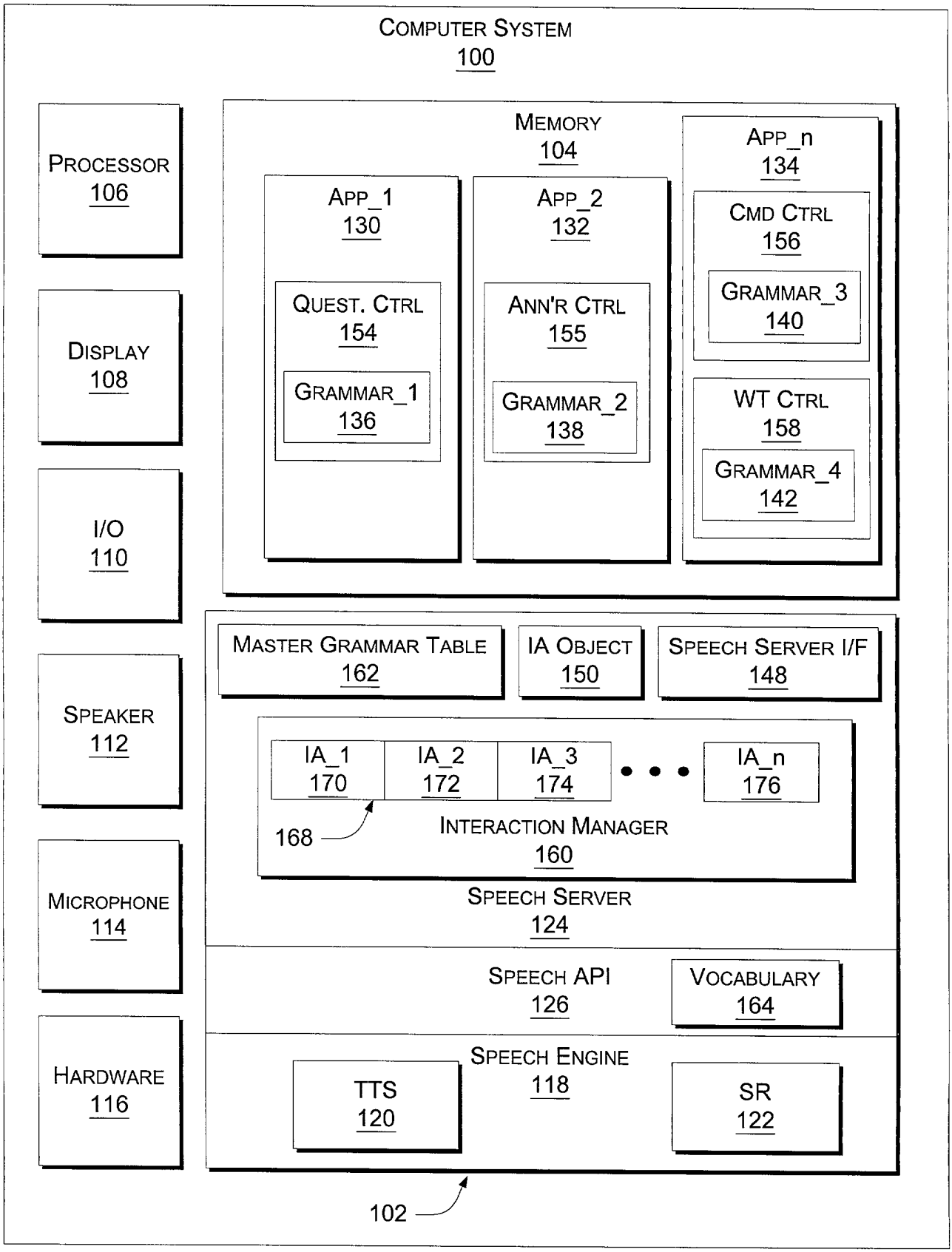
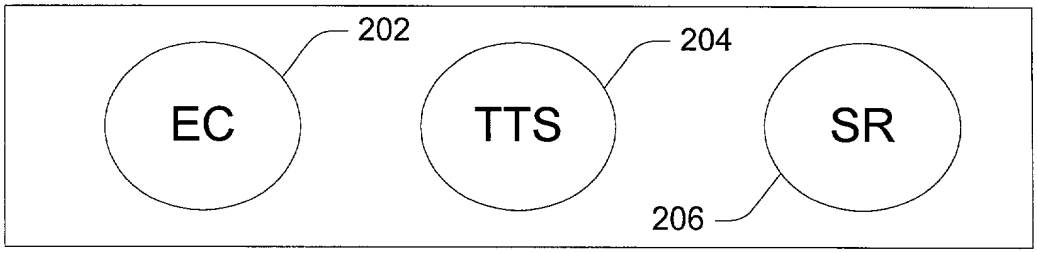
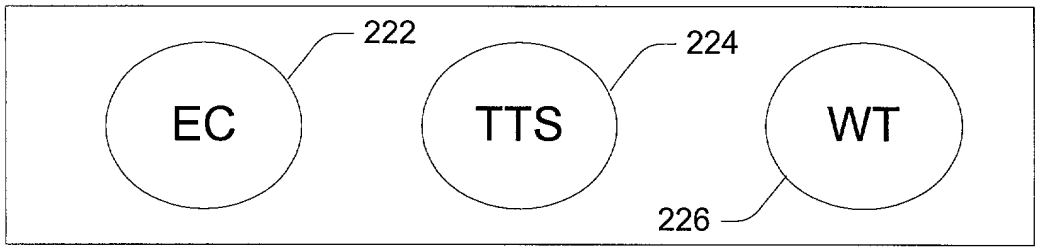

COMPUTER SYSTEM
100
PROCESSOR
106
DISPLAY
108
I/O
110
SPEAKER
112
MICROPHONE
114
HARDWARE
116
MEMORY
104
APP_1
130
QUEST. CTRL
154
GRAMMAR_1
136
APP_2
132
ANN'R CTRL
155
GRAMMAR_2
138
APP_n
134
CMD CTRL
156
GRAMMAR_3
140
WT CTRL
158
GRAMMAR_4
142
MASTER GRAMMAR TABLE
162
IA OBJECT
150
SPEECH SERVER I/F
148
IA_1
170
IA_2
172
IA_3
174
IA_n
176
168
INTERACTION MANAGER
160
SPEECH SERVER
124
SPEECH API
126
VOCABULARY
164
SPEECH ENGINE
118
TTS
120
SR
122
102

Fig 1



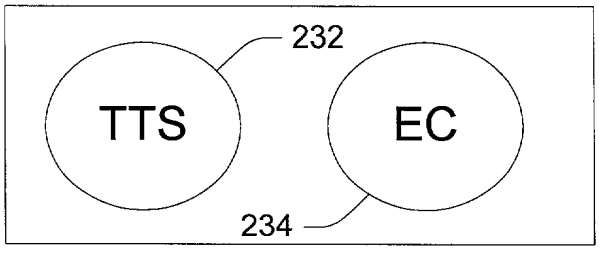

INTERACTION A
200

Fig 2a




INTERACTION B
220

Fig 2b




INTERACTION C
230

Fig 2c

Express Mail Label No. EV339936425US

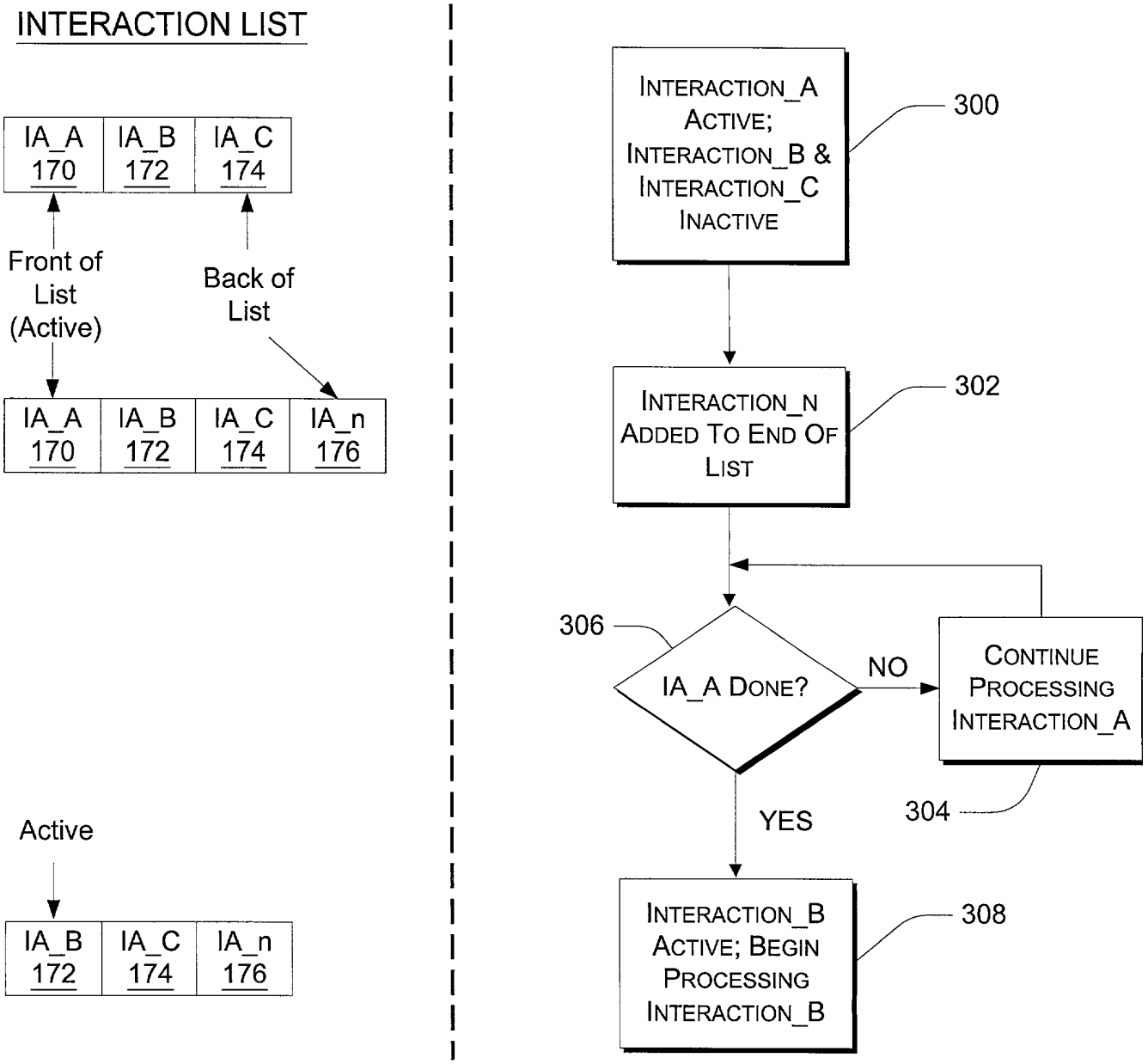



Fig. 3

INTERACTION PROCESSING

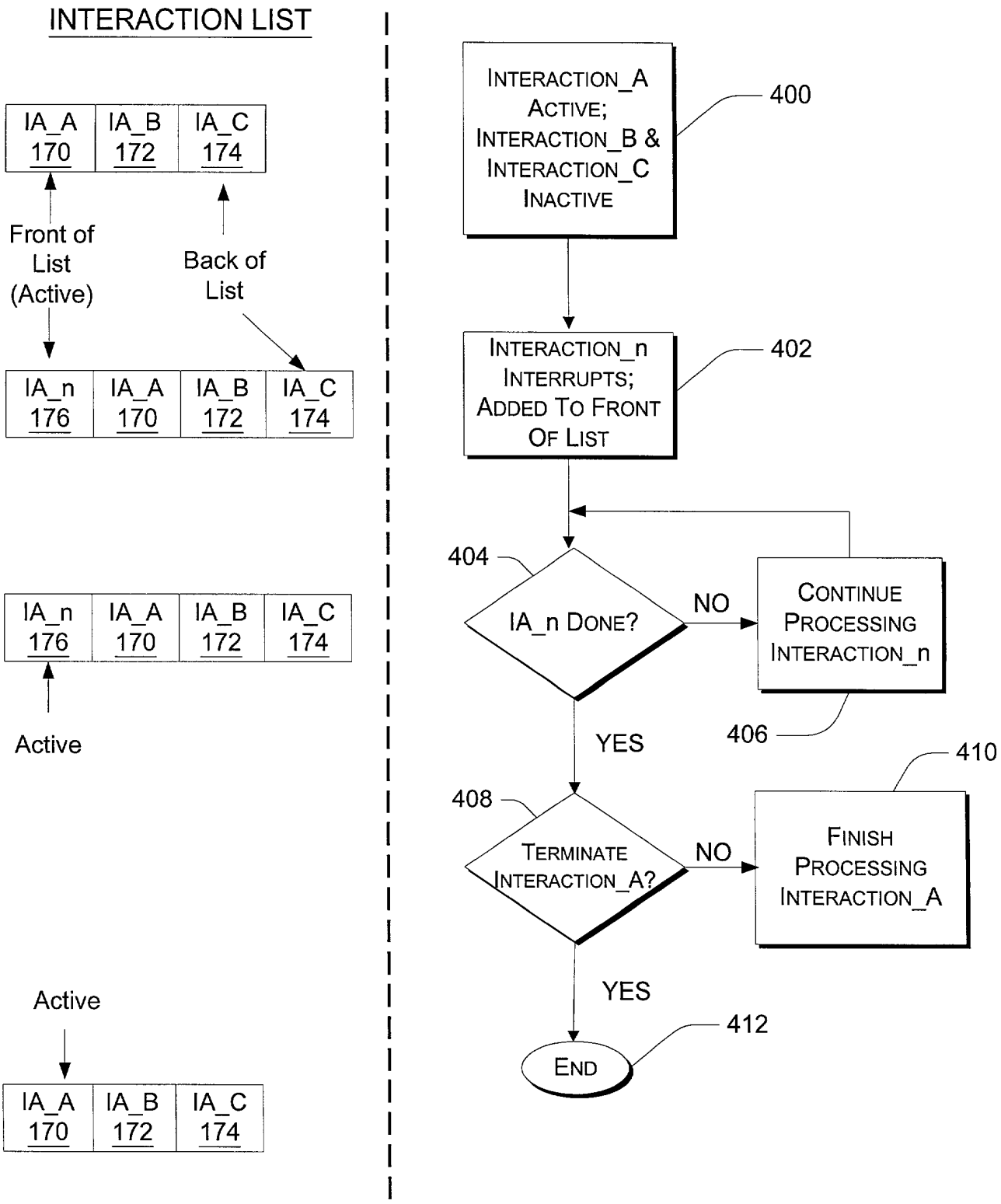



Fig. 4

INTERRUPTION

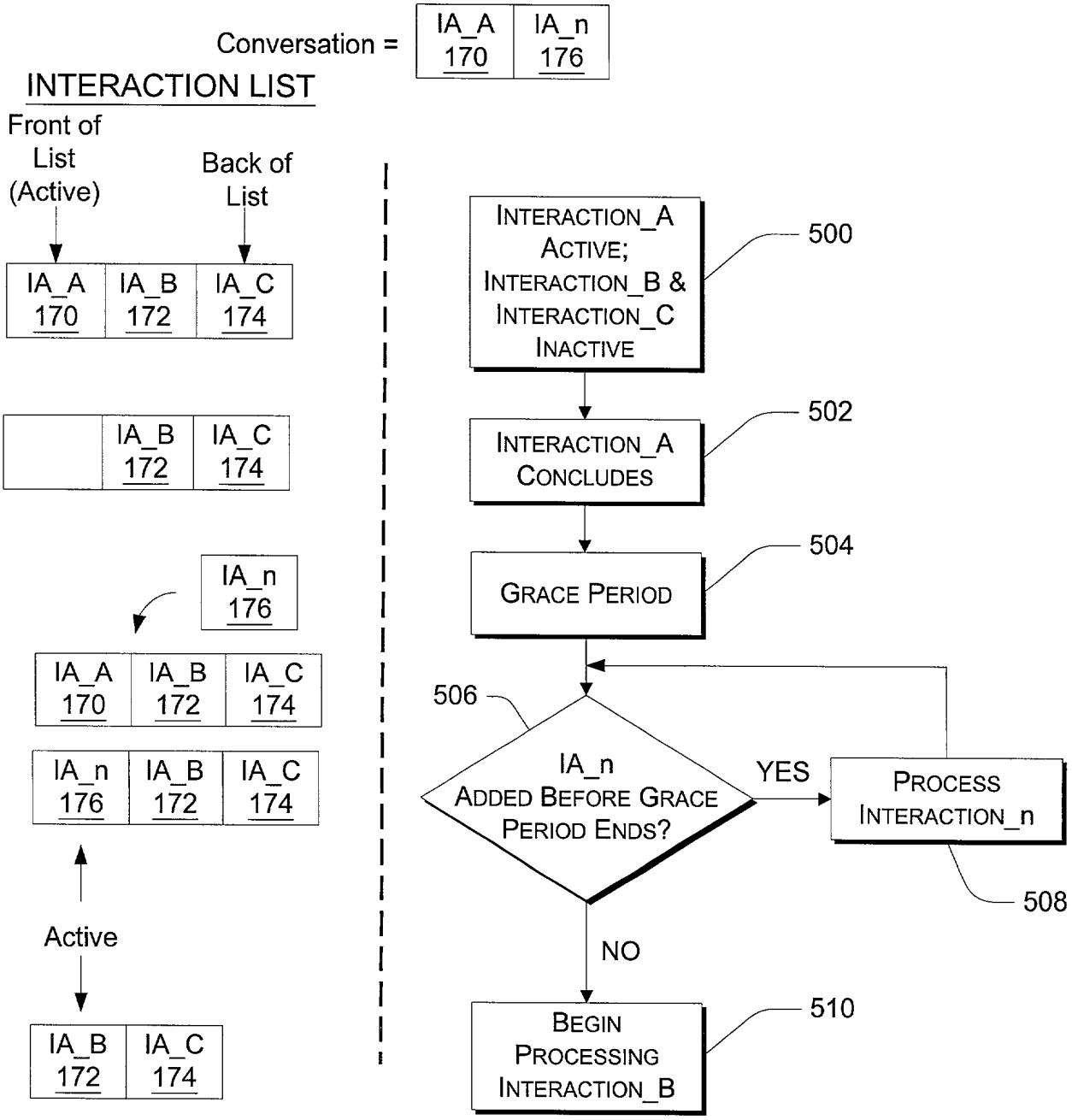



Fig. 5

INTERACTION CHAINING

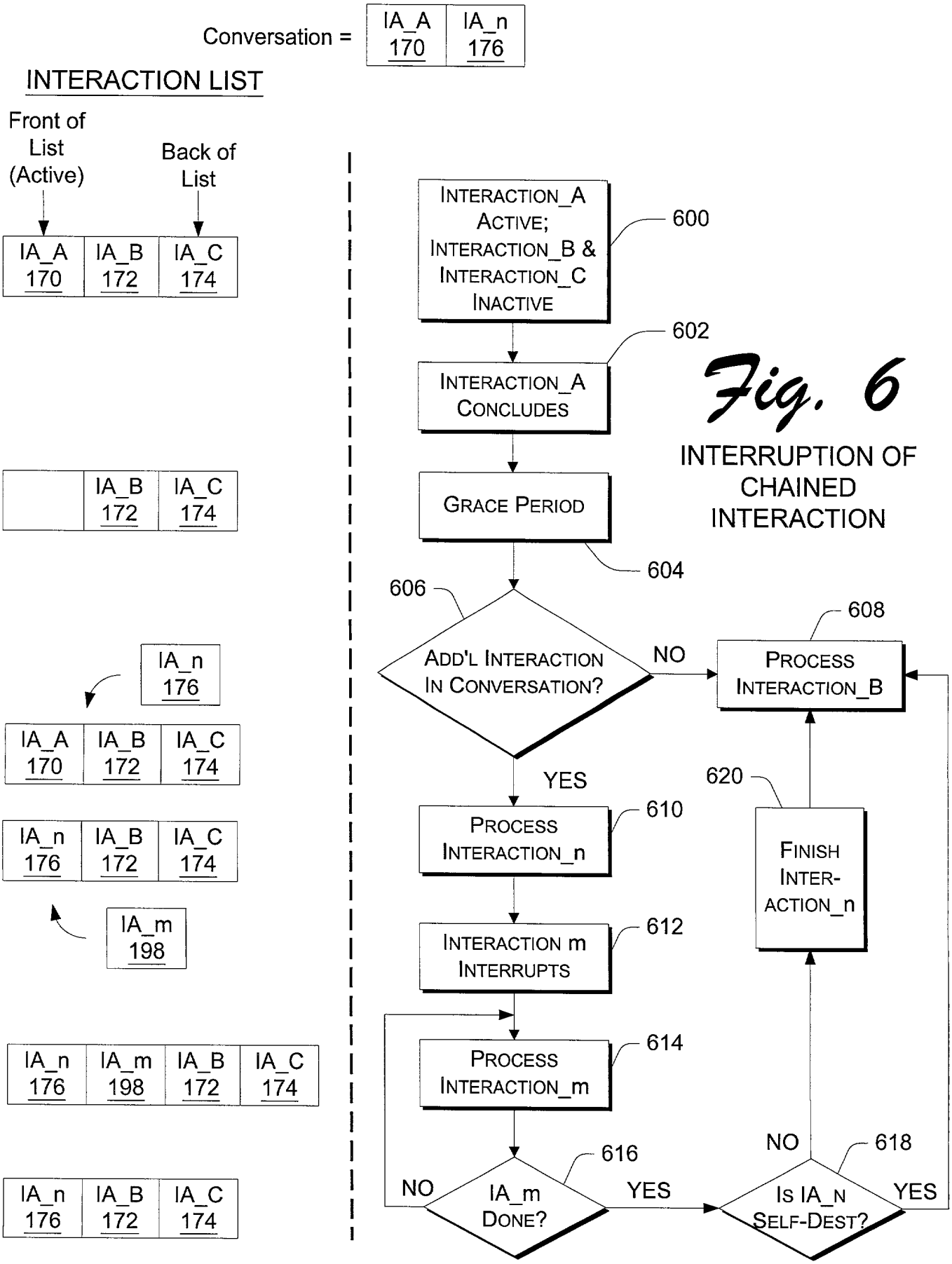



Fig. 6

INTERRUPTION OF CHAINED INTERACTION

4005585-080406

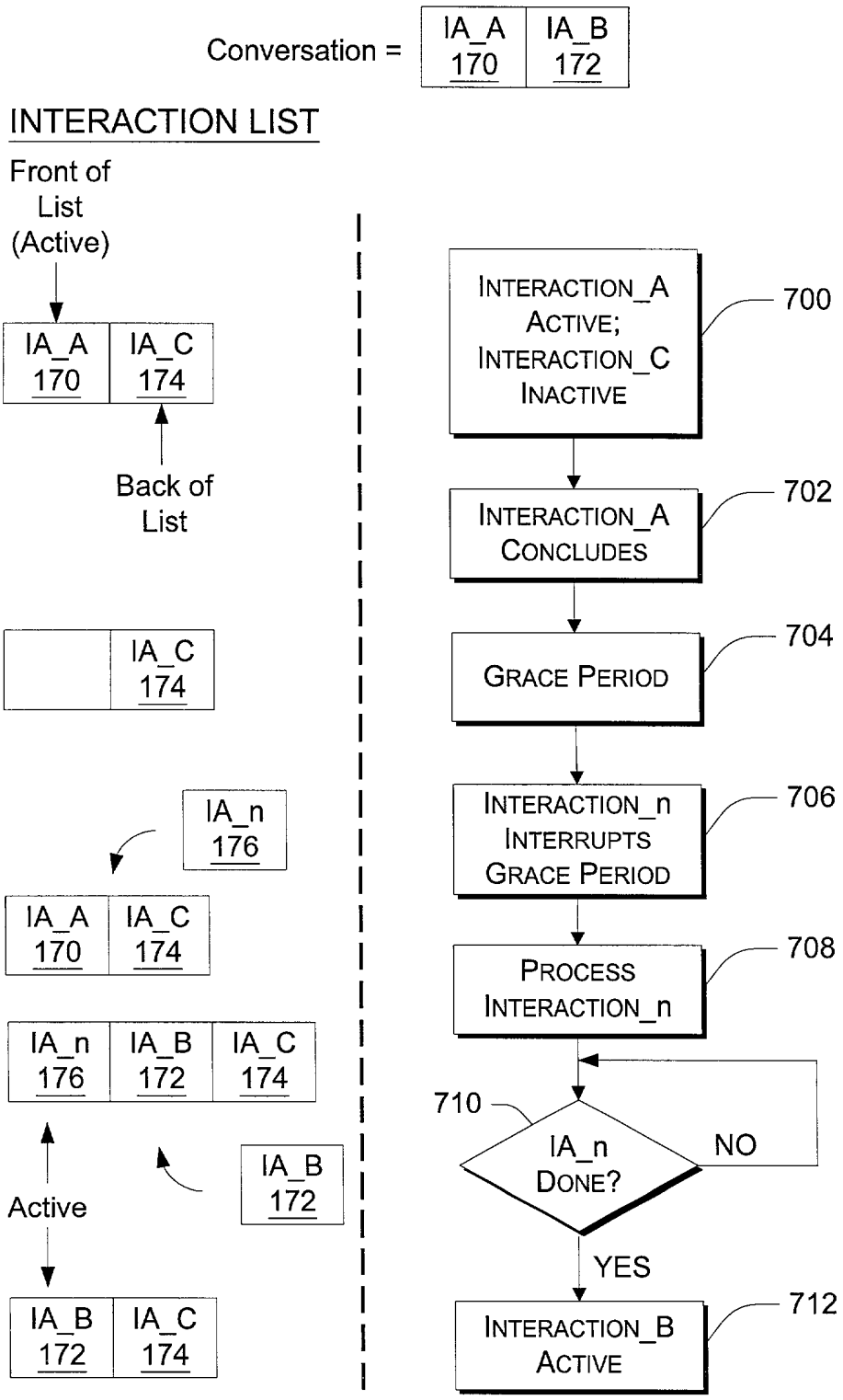
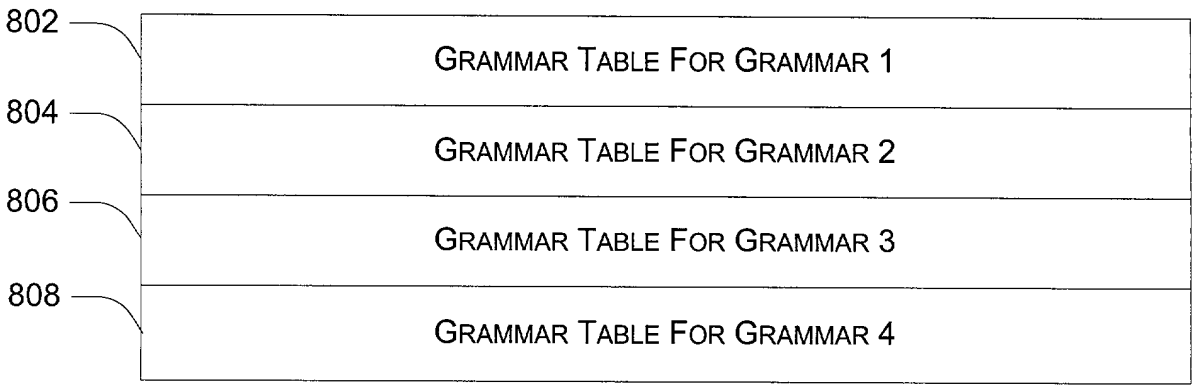


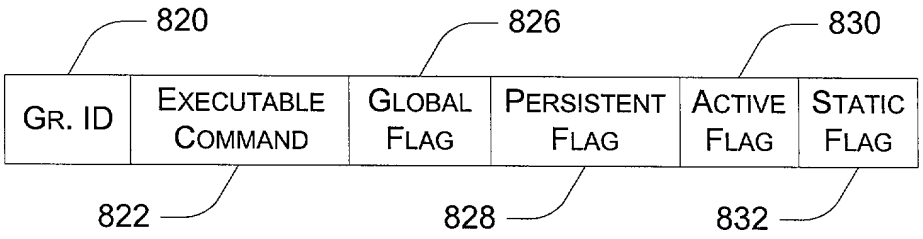

Fig. 7

INTERRUPTION OF GRACE PERIOD




MASTER GRAMMAR TABLE
800

Fig 8a




GRAMMAR TABLE
810

Fig 8b

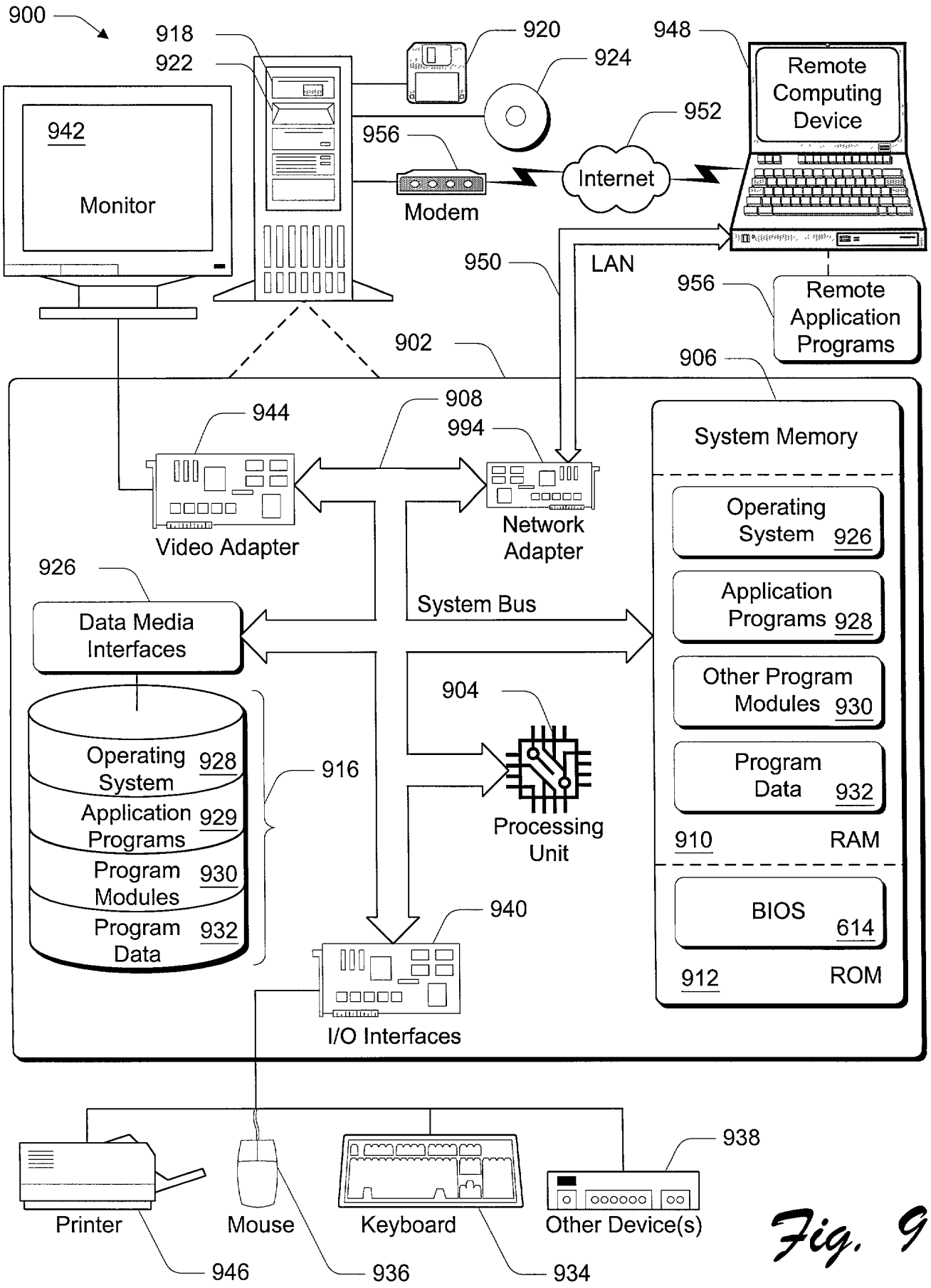

900
918
922
920
924
948
Remote Computing Device
942
Monitor
956
Modem
952
Internet
950
LAN
956
Remote Application Programs
902
906
908
944
994
System Memory
Video Adapter
Network Adapter
Operating System 926
926
Application Programs 928
Data Media Interfaces
System Bus
Other Program Modules 930
904
Program Data 932
916
Operating System 928
Application Programs 929
Program Modules 930
Program Data 932
Processing Unit
910
RAM
BIOS 614
940
912
ROM
I/O Interfaces
938
Printer
Mouse
Keyboard
Other Device(s)
946
936
934

Fig. 9

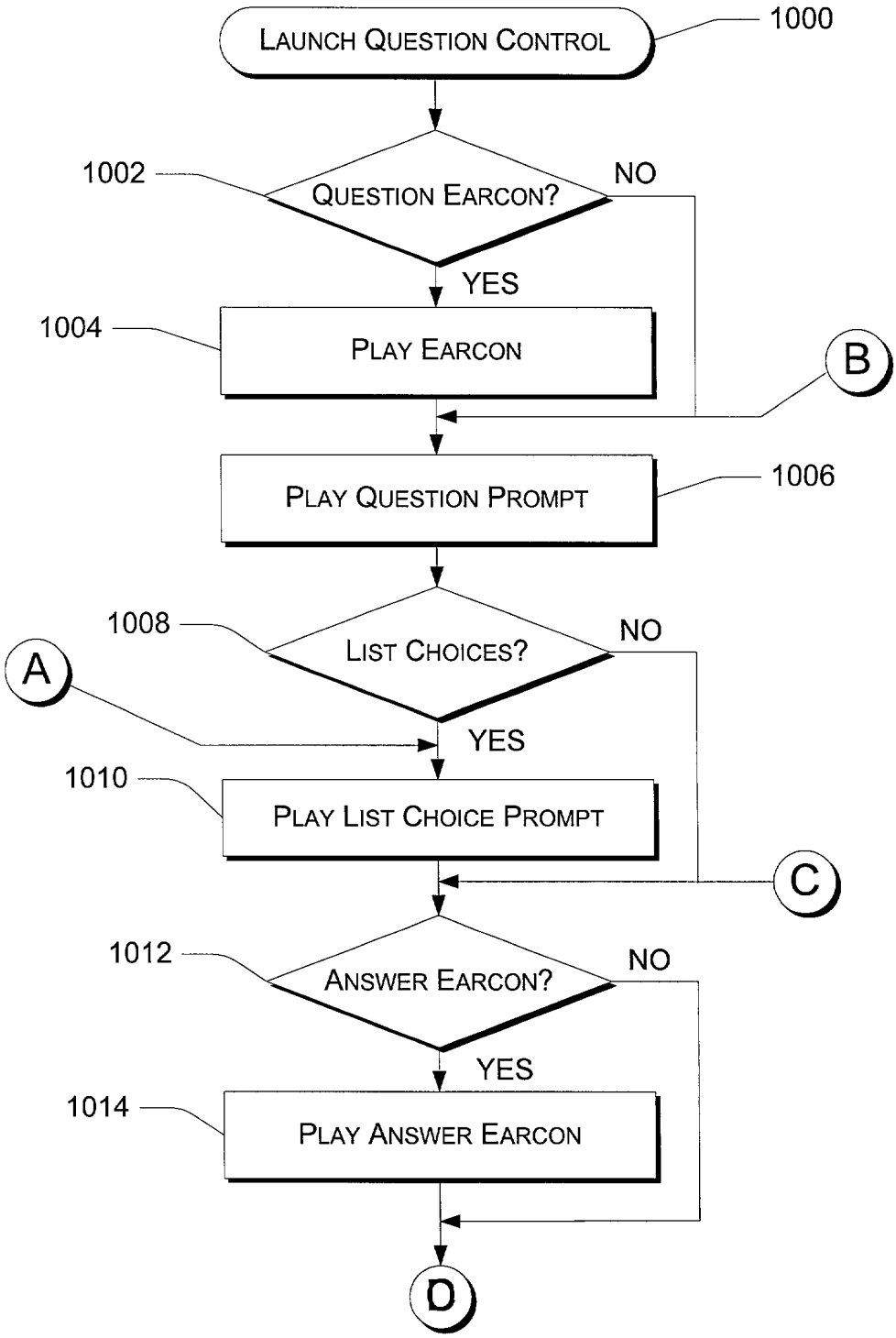



Fig. 10

QUESTION CONTROL

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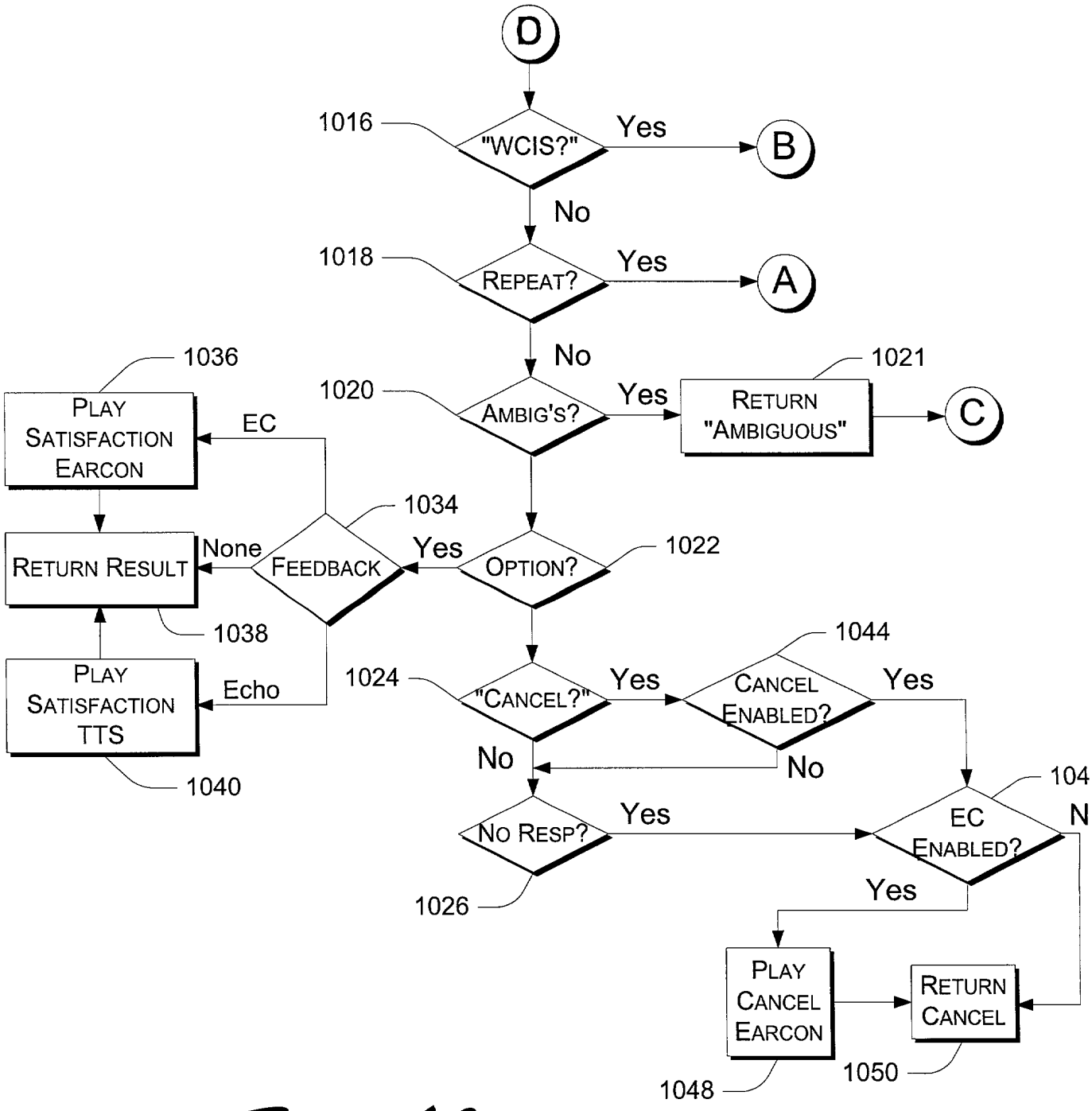



Fig. 10
(cont'd)

QUESTION
CONTROL

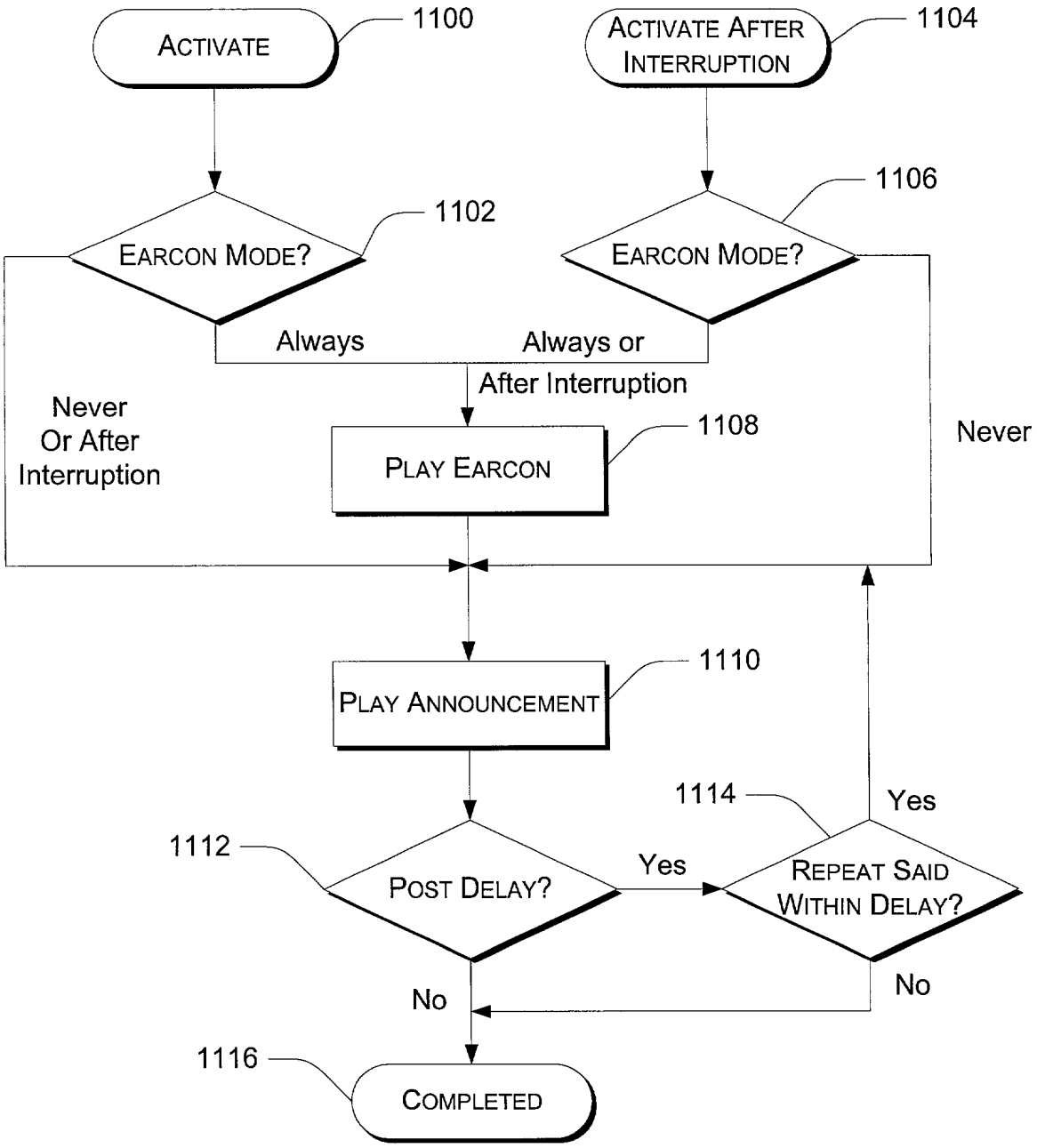
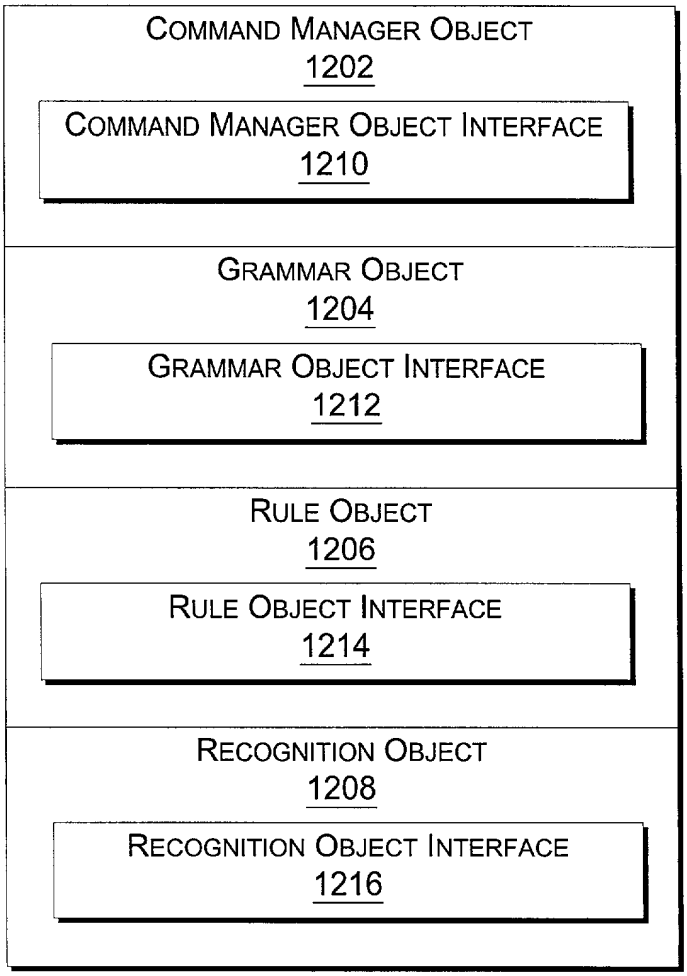



Fig. 11

ANNOUNCER CONTROL




COMMAND
CONTROL
1200

*Fig. 12a*

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1210 **COMMAND MANAGER OBJECT INTERFACE**

**PROPERTIES**

1220 PERSISTENCE ID
1222 GRAMMAR ID
1224 GRAMMAR

**METHODS**

1226 CREATE GRAMMAR
1228 PERSIST
1230 REMOVE GRAMMAR
1232 START
1234 EVENT: RECOGNITION

1212 **GRAMMAR OBJECT INTERFACE**

**PROPERTIES**

1236 ENABLED

**METHODS**

1238 RULE
1240 CREATE RULE

1214 **RULE OBJECT INTERFACE**

**PROPERTIES**

1242 ENABLED

**METHODS**

1244 ADD RULE
1246 ADD PHRASE
1248 ADD ALTERNATE RULE
1250 ADD ALTERNATE PHRASE

1216 **RECOGNITION OBJECT INTERFACE**

**PROPERTIES**

1252 RULE
1254 TEXT

**METHODS**

1256 PROPERTY VALUE
1258 GET ALTERNATE

Fig. 12b

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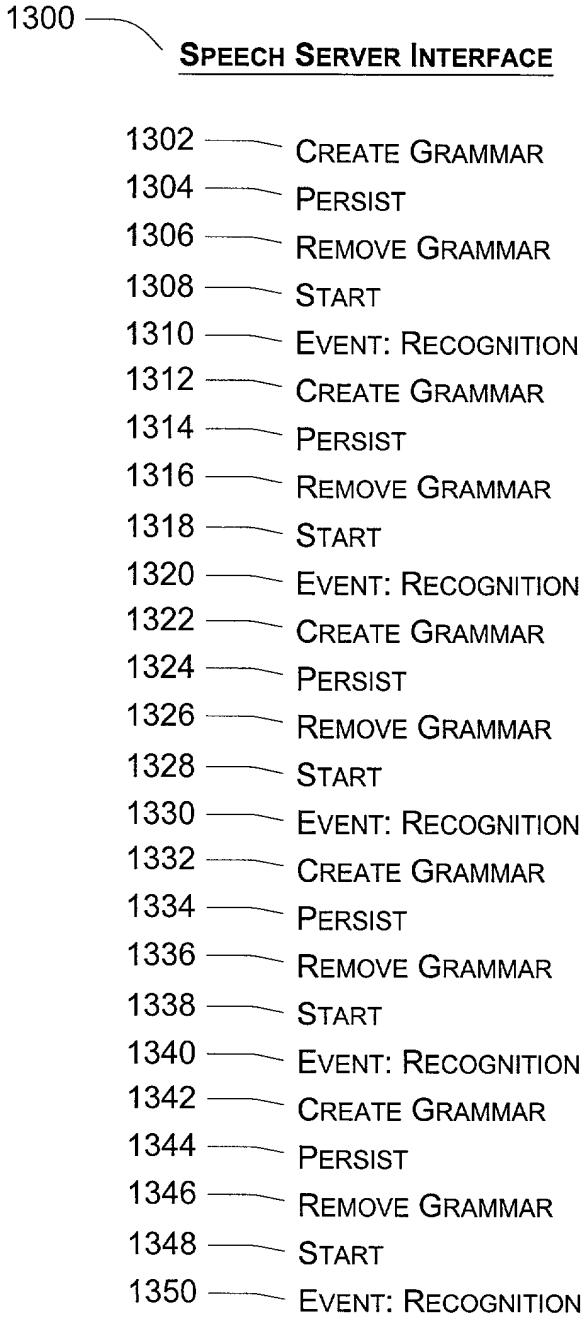


Fig. 13

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